

Name:

The Effect That We Have

Directions: Graph the following data. To put all of this data on one graph, it will have two separate scales on the Y-axis. Put the year on the X axis. Put the scale for Total World Population on the Left Y-axis. Put the scale for Average CO₂ level on the Right Y-axis. Make sure to include a key so that we can understand your graph.

<u>Year:</u>	<u>Total World Population(millions)</u>	<u>Average CO₂ level (ppm)*</u>
1960	2,982	315.91
1965	3,335	318.8
1970	3,692	324.69
1975	4,068	329.88
1980	4,435	337.45
1985	4,831	344.7
1990	5,263	352.67
1995	5,674	358.94
2000	6,070	368.18
2005	6,454	378.6
2008	6,707	384.15
2009	6,904	385.92

Answer the following questions:

1. How do the data for total world population and Average CO₂ Level correlate with each other?
2. Provide an explanation for the cause of both trends.
3. Briefly discuss the consequences of these trends if they were to continue for the indefinite future.
4. Are these trends due to positive or negative feedback? Why?